

Wobbly Ramp Walker



Harness gravity to make a motorless bot travel down a ramp.

Kit contains:

- leg template
- wooden skewer
- 7 wooden beads
- 4 mini rubber bands
- 2 mini craft sticks
- 2 foam rectangles
- 2 shelf liner rectangles

You will need: scissors, glue, a hole punch or sharp nail, and a ramp.



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INSTRUCTIONS

ASSEMBLE THE LEGS

Step 1. Cut out the legs. Use a hole punch or sharp pencil to poke through the circles. Fold the legs on the dashed lines.



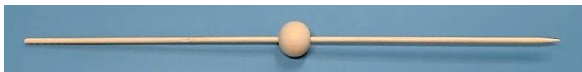
Step 2. Glue the foam rectangles to the bottoms of the feet, followed by the shelf liner rectangles. The nubby material will act as gym shoes for better traction.

Step 3. Glue a mini craft stick to the top of each foot, right next to the leg, as shown.

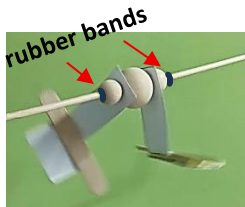


ASSEMBLE THE BODY

Step 1. Slide your biggest bead onto the center of the skewer. This will be the head.



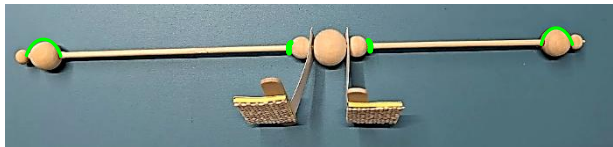
Step 2. Slide the two legs onto the skewer on either side of the head bead. Be sure they can swing freely. If not, enlarge the holes in the cardboard.



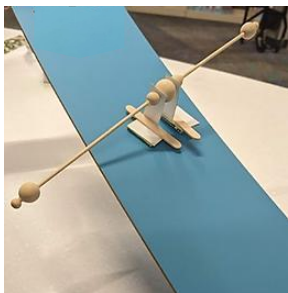
Step 3. Choose a pair of matching beads to be the shoulders. Slide one next to each leg. Twist a rubber band next to each shoulder to keep them from sliding

on the skewer, but the legs should be able to swing freely.

Step 4. Add one or two pairs of beads to the ends of the skewers for balance. Twist a rubber band around them to secure in place.



Source: instructables.com/Gravity-Powered-Robot-Walker/



Test it out! Find a flat surface to use as a ramp. Place your wobbly ramp walker at the top. Give it a nudge to get it going, then adjust the angle of the ramp until it toddles all the way down. This might take fine tuning,

but when it works, it will be adorable!

Adjust! Do you think your beads are in the best position? Untwist the rubber bands, then swap around the shoulder and balancing beads. What configuration makes your wobbly ramp walker work the best?



Example

Human brains are weird! We have a tendency to **anthropomorphize**, or attach human form or personality, to animals and other non-human things. Your ramp walker isn't a person, but did you find yourself cheering on your little buddy?